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APPLICANT : MITSUBISHI METAL CORP;

INVENTOR : KIKUCHI NORIBUMI;

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TITLE : ORNAMENTS MADE OF ARTIFICIAL DIAMOND-COATED GOLD AND GOLD ALLOY

ABSTRACT : PURPOSE: To permanently maintain an ornamental aesthetic value by coating artificial diamond via an intermediate layer consisting of an Au alloy having a specific compsn. on the surface of a base body consisting of gold or gold alloy so that the surface resistant to scratching is obtd.

CONSTITUTION: The thin film of the intermediate layer consisting of 1~20% 1 or ≥ 2 kinds among Hf, Zr, Ti, Ta, Cr, V, Nb, Mo, and W as artificial diamond precipitation accelerating components, further contg. 1~40% 1 or ≥ 2 kinds among Ag, Pd, Cu, and Ni and consisting of the balance Au and inevitable impurities is formed on the surface of the base body consisting of the gold or gold alloy by a physical vapor deposition method such as, for example, sputtering method. The artificial diamond is precipitated on the surface of the base body via the intermediate layer. A thermo electron radiation method, high-frequency plasma method or microwave method is used as the artificial diamond precipitation treatment method.

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